

# Professional Learning Development Guide for Critical Care

This is an overview of courses, conferences, research degrees, and options for junior doctor's who are critical care oriented.

DISCLAIMER: The information contained in this document is for general information only. It is not designed to take the place of professional advice based on individual situations. Course costs are provided as estimates only and are subject to change. Obtained from the Professional development leave guide 2020, PMCWA.

## 1. GENERAL

### 1.1 General courses

<b>Title</b>	<b>Organisation</b>	<b>Overview</b>	<b>Location</b>	<b>Cost (estimate only, subject to change)</b>	<b>Website</b>	<b>Suitable for:</b>
ALS1	The Australian Resuscitation Council	A one-day (or modular – two half day) course aimed at providing the candidate with the skills and knowledge to manage the patient in the immediate period of crisis.	<a href="https://resus.org.au/course_dates/">https://resus.org.au/course_dates/</a>		<a href="https://resus.org.au/courses/#als1">https://resus.org.au/courses/#als1</a>	Medical students/interns (often completed in final year of medical school)
ALS2	The Australian Resuscitation Council	This is a two-day (or modular) course with the focus on developing advanced skills in managing a deteriorating patient and cardiac arrest	<a href="https://resus.org.au/course_dates/">https://resus.org.au/course_dates/</a>	Approximately \$300 if done internally through a WA public hospital, more expensive for external courses (approx. \$1500)	<a href="https://resus.org.au/courses/#als2">https://resus.org.au/courses/#als2</a> Individual hospital contacts:  SCGH <a href="mailto:jon.howard@health.wa.gov.au">jon.howard@health.wa.gov.au</a>  FSH <a href="mailto:fshnumidedu@health.wa.gov.au">fshnumidedu@health.wa.gov.au</a>  RPH <a href="mailto:RPH.ResusTraining@health.wa.gov.au">RPH.ResusTraining@health.wa.gov.au</a>  WACHS <a href="mailto:Catherine.Gale@health.wa.gov.au">Catherine.Gale@health.wa.gov.au</a>	Appropriate participants include doctors, and nurses working in critical care areas (e.g. ED, CCU, ICU, HDU, acute admissions units) or in the resuscitation /medical emergency team, and paramedics
Early Management of Severe Trauma (EMST)		EMST is a 2.5 day course that teaches a systematic, concise approach to the care of a trauma patient, providing a safe and reliable method for immediate management of injured patients in the first 1 to 2 hours following injury. <b>EMST is considered equivalent to</b>		\$2,990	<a href="https://www.surgeons.org/for-health-professionals/register-courses-events/skills-training-courses/emst/#course_overview">https://www.surgeons.org/for-health-professionals/register-courses-events/skills-training-courses/emst/#course_overview</a>	Appropriate participants include PGY2+, mandatory course for RACS trainees and oral & maxillofacial surgery trainees

		<b>ATLS® internationally.</b>				
Lightbox Radiology	Lightbox Radiology Education	Radiology teaching through experienced RANZCR and International Offers unique face-to-face courses, including hands-on workshops, custom courses and online e-learning solutions. Courses have been accredited by major medical colleges around Australia and internationally.	Online. Australia and overseas	Various depending on course	<a href="https://lightboxradiology.com/radiology-courses.aspx">https://lightboxradiology.com/radiology-courses.aspx</a>	Qualified health professionals including radiologists, doctors, nurses, radiographers, physiotherapists, and students.
TOTR 1& 2	Teaching on the Run (TOTR) modules 1 & 2		Perth	\$200-300		Interns through to Consultants

## 1.2 General Conferences:

- Creative Careers in Medicine (CCIM) conference – 2 day conference with workshops, one on one career counselling, a medical careers exploration and an exploration of talents outside of medicine. Last held 3-4<sup>th</sup> August 2019, QT Gold Coast  
<https://creativecareersinmedicine.com/>
- Australian Doctors Health Conference, biannual event focusing on doctors health and wellbeing (last held in Perth 22-23 Nov 2019)  
<https://www.dhas.org.au/upcoming-conferences/health-professionals-health-conference.html>

## 2. CRITICAL CARE

### 2.1 ANAESTHETICS

#### Anaesthetics Specific Courses

<b>Title</b>	<b>Organisation</b>	<b>Overview</b>	<b>Location</b>	<b>Cost (estimate only, subject to change)</b>	<b>Website</b>	<b>Suitable for:</b>
<b>X-ray Chest and Emergency Interpretation</b>	Lightbox Radiology	The goal of the course is to provide practitioners with the confidence to recognise a normal chest X-Ray, common patterns of disease and to recognise radiographic patterns of trauma and injury commonly encountered for each body area. All lectures are developed by radiologists.	Various (New Zealand and Japan for 2019)	\$540	<a href="https://lightboxradiology.com/course-details.aspx?c=1011">https://lightboxradiology.com/course-details.aspx?c=1011</a>	General Practitioners, Critical Care Physicians, Emergency Physicians, Registrars, Resident Medical officers, Interns, Radiographers, Physiotherapists.
CT Acute Medical and Surgical Interpretation	Lightbox Radiology	Designed in a systematic learning format, the course covers acquisition, normal variations, patterns of disease & pitfalls in CT imaging of the head, chest, abdomen, pelvis, cervical & thoracolumbar spine. Each module is composed of a didactic lecture followed by an interactive session where participants review CT cases alone or in pairs to reinforce fundamental learning objectives. The goal is to provide practitioners with the knowledge and confidence to interpret CT findings in commonly encountered acute clinical settings. All lectures are presented by radiologists.	Various (Sydney and Noosa for 2019).	\$660	<a href="https://lightboxradiology.com/course-details.aspx?c=1005">https://lightboxradiology.com/course-details.aspx?c=1005</a>	Critical Care Physicians, Surgeons, General Practitioners, Registrars, Resident Medical Officers, Interns, Radiographers
<b>RAVE Course (Rockingham Airway &amp; Ventilation Education)</b>	Rockingham General Hospital	Airway and Ventilation	Rockingham General Hospital		<a href="https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW">https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW</a>	Email: <a href="mailto:Anthony.tzannes@health.wa.gov.au">Anthony.tzannes@health.wa.gov.au</a> (preferred communication method for course enquiries) Phone: (08) 9599 4000 (Rockingham General Hospital Switchboard)
<b>JDocs: Emergency Airways</b>	CTEC	This one-day hands-on workshop features practical stations including anatomical landmarks, didactic sessions and case studies and discussions. Hands-on sessions are guided by expert faculty and focus on the incisions and percutaneous insertions involved in a surgical airway.	CTEC The University of Western Australia Entrance No.2 Hackett Drive, Crawley Perth, Western Australia	WA Participant: \$690 Non-WA Participant: \$860	<a href="https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-airways">https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-airways</a>	Interns, Resident Medical Officers, Resident Medical Officers and Service Registrars with an interest in emergency medicine
EMST /ATLS	<i>Please refer to general section</i>					

APLS/ALS 2	<i>Please refer to general section</i>					
Intensive Care Ultrasound - RUSH	Australasian Institute of Ultrasound	This intensive program provides participants with tuition in basic physical principles, understanding of sonographic planes, terminology, measurements and probe manipulation skills, along with techniques involved in ultrasound needle guidance.		\$285s	<a href="https://www.aiu.edu.au">https://www.aiu.edu.au</a>	Developed for Intensive Care specialists, ICU registrars / trainees & other ICU practitioners interested in ultrasound techniques useful in their specialty
Procedural Guidance Ultrasound	<b>Australasian Institute of Ultrasound</b>	This course has been designed to give practitioners' an understanding of ultrasound guided techniques, machine optimisation and includes tips and traps, anatomy familiarisation on real volunteers and needling practice on phantoms.	Various	\$950	<a href="https://www.aiu.edu.au/product-page/ultrasound-guided-procedures-1-day-course">https://www.aiu.edu.au/product-page/ultrasound-guided-procedures-1-day-course</a>	
Rapid Assessment by Cardiac Echo (RACE)	The Nepean Institute of Critical Care Education and Research	One day practical course on the application of ultrasound in assessing the heart and chest in the acute setting.	Various	\$700 – 800	<a href="https://www.niccer.org.au/race.html">https://www.niccer.org.au/race.html</a>	Suited to the physician wishing to learn basic echocardiography as an extension of the physical examination.

## Anaesthetics Specific Conferences

<b>Title</b>	<b>Organisation</b>	<b>Overview</b>	<b>Location</b>	<b>Cost (estimate only, subject to change)</b>	<b>Website</b>
ANZCA ASM	<b>ANZCA</b>	The Australian and New Zealand College of Anaesthetists annual scientific meeting is the principal continuing medical education conference for anaesthetists and pain physicians in Australasia. Each year it is held in a different location	Various depending on year (2020 Perth)	Depending on registration type	<a href="http://www.anzca.edu.au/events/anzca-annual-scientific-meetings">http://www.anzca.edu.au/events/anzca-annual-scientific-meetings</a>
Australian Pain Society ASM	Australian Pain Society		Various (Tasmania in 2020)	Depending on registration type	<a href="https://www.dccconferences.com.au/aps2020/">https://www.dccconferences.com.au/aps2020/</a>

## 2.2 EMERGENCY MEDICINE Certificate and Diploma programmes

Title	Organisation	Overview	Location	Cost	Website	Suitable for:
<b>Emergency Medicine Certificate</b>	Australasian College for Emergency Medicine (ACEM).	Six month competency-based training program conducted in the workplace under the supervision of an approved EMCD Supervisor.	Any ACEM approved training site (list on ACEM website)	\$2409 <i>(subject to change)</i>	<a href="https://acem.org.au/Content-Sources/Certificate-and-Diploma-Programs/Emergency-Medicine-Certificate-(1)/Curriculum">https://acem.org.au/Content-Sources/Certificate-and-Diploma-Programs/Emergency-Medicine-Certificate-(1)/Curriculum</a>	PGY 2 or above with a minimum of 10 weeks experience in ED
<b>Emergency Medicine Diploma</b>	Australasian College for Emergency Medicine (ACEM).	An 18 month competency-based training program	Any ACEM approved training site	\$6195 <i>(subject to change)</i>	<a href="https://acem.org.au/Content-Sources/Certificate-and-Diploma-Programs/Emergency-Medicine-Diploma-(1)/Curriculum">https://acem.org.au/Content-Sources/Certificate-and-Diploma-Programs/Emergency-Medicine-Diploma-(1)/Curriculum</a>	PGY 3 and above plus pre-requisite qualifications (see website)
<b>Diploma in Diagnostic Ultrasound (DDU)</b>	Australasian Society for Ultrasound Medicine (ASUM)	2 year course comprised of three (3) modules; Module 1 (Foundations of Ultrasound Practice), Module 2 (Clinical Competence) and Module 3 (Advanced Ultrasound Practice).	Online and with clinical placement and supervisors	Module based costs (see website)	<a href="https://www.asum.com.au/education/ddu-course/">https://www.asum.com.au/education/ddu-course/</a>	Members of ASUM, selected by DDU board of examiners for eligibility.

## Emergency Medicine Specific Courses

Title	Organisation	Overview	Location	Cost <i>(estimate only, subject to change)</i>	Website	Suitable for:
<b>JDocs: Emergency Procedures</b>	CTEC	This one-day hands-on workshop features content specifically designed to meet the essential surgical skills required to apply for specialty training. It is an excellent introductory level workshop in a supportive environment for participants with limited experience in medical and surgical emergencies.	CTEC The University of Western Australia Entrance No.2 Hackett Drive, Crawley Perth, Western Australia	WA Participant: \$925 Non-WA Participant: \$1225	<a href="https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-procedures">https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-procedures</a>	Suitable for interns, RMOs and service registrars.  Accredited by RACS and ACEM
<b>JDocs: Emergency Airways</b>	CTEC	CTEC's JDocs: Emergency Airways workshop is aimed at developing the skills and knowledge of pre-vocational doctors in dealing with the establishment of an airway by means of a surgical approach. It is designed to enhance knowledge and confidence in often challenging emergency procedures deployed when attempts at a basic airway	CTEC The University of Western Australia Entrance No.2 Hackett Drive, Crawley Perth, Western Australia	WA Participant: \$690 Non-WA Participant: \$860	<a href="https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-airways">https://www.ctec.uwa.edu.au/workshop/jdocs-emergency-airways</a>	Interns, House Medical Officers, Resident Medical Officers and Service Registrars with an interest in emergency medicine

		have failed in the clinical setting.				
<b>RAVE Course (Rockingham Airway &amp; Ventilation Education)</b>	Rockingham General Hospital	Airway and Ventilation	Rockingham General Hospital		<a href="https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW">https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW</a>	Email: <a href="mailto:Anthony.tzannes@health.wa.gov.au">Anthony.tzannes@health.wa.gov.au</a> (preferred communication method for course enquiries) Phone: (08) 9599 4000 (Rockingham General Hospital Switchboard)
Point of Care Ultrasound courses	Australasian Society for Ultrasound in Medicine		Online and various locations in Australia	Various	<a href="https://www.asum.com.au/allied-partners/workshop/">https://www.asum.com.au/allied-partners/workshop/</a>	
Two-day emergency ultrasound	Ultrasound Village	Features: online lectures, maximal hands on scanning time, structured reports, opportunity for logbook submission			<a href="https://www.asmi.edu.au/emergency-ultrasound-course-1-3-days/">https://www.asmi.edu.au/emergency-ultrasound-course-1-3-days/</a>	
Rotto Ramble	Rural Health West	Participants to test their medical skills and knowledge responding to life-threatening medical emergencies on the beaches and tourist hot spots of Rottnest Island.			<a href="http://www.ruralhealthwest.com.au/general-practice/professional-development/conference/2018/10/26/default-calendar/rotto-ramble-2018">http://www.ruralhealthwest.com.au/general-practice/professional-development/conference/2018/10/26/default-calendar/rotto-ramble-2018</a>	Medical students, interns, RMOs, GP registrars
Rural and Remote Retrieval Weekends	Rural Health West	Provides participants with the opportunity to learn about the management of medical emergencies in a remote environment with limitation in equipment, personnel and resources.	Karijini	This Active Learning Module (ALM) is eligible for a two-day emergency grant valued at \$4,000. For further details about the emergency grant, contact the RACGP on 1800 636 764 or ACRRM on 1800 223 226	<a href="http://www.ruralhealthwest.com.au/general-practice/professional-development/conference/2018/05/17/default-calendar/rural-and-remote-retrieval-weekend-2018">http://www.ruralhealthwest.com.au/general-practice/professional-development/conference/2018/05/17/default-calendar/rural-and-remote-retrieval-weekend-2018</a>	
Major Incident Medical Management Support (MIMMS) course	MIMMS Australasia	This course has taken key aspects of the Commander course, which are relevant for those members	Perth	\$695 Government rate, \$995 all others	<a href="https://www.mimms.org.au/courses/wa">https://www.mimms.org.au/courses/wa</a>	All doctors

## Emergency Specific Conferences

<b>Title</b>	<b>Organisation</b>	<b>Overview</b>	<b>Location</b>	<b>Cost (estimate only, subject to change)</b>	<b>Website</b>
ACEM Annual Scientific Meeting	ACEM	The Annual Scientific Meeting (ASM) aims to enhance the knowledge and skills of Australian and New Zealand emergency physicians in an environment which facilitates professional networking. The ASM rotates around cities of Australia and New Zealand.	Various	Depending on registration type	<a href="https://acem.org.au/Content-Sources/About/ACEM-Events">https://acem.org.au/Content-Sources/About/ACEM-Events</a>
ACEM Winter Symposium	ACEM	The Winter Symposium is held every second year, in a regional location of either Australia or New Zealand. This event is designed for an intimate meeting space and allows for more interactive sessions and networking opportunities.	Various	Depending on registration type	<a href="https://acem.org.au/Content-Sources/About/ACEM-Events">https://acem.org.au/Content-Sources/About/ACEM-Events</a>
ICEM	International Federation of Emergency Medicine	The IFEM holds its International Conference on Emergency Medicine (ICEM) annually in June.	Various	Depending on registration type	<a href="https://www.icem2019.com/about/about_01.asp?sMenu=abo1">https://www.icem2019.com/about/about_01.asp?sMenu=abo1</a>



## 2.3 INTENSIVE CARE

### Intensive Care Specific Courses

Title	Organisation	Overview	Location	Cost (estimate only, subject to change)	Website	Suitable for:
BASIC Course		This international course is highly recommended for all HMOs and Registrars. The aim of this program is to provide basic skills and knowledge necessary to assess, support and manage the care of critically ill patients and is approved by the College of Intensive Care Medicine (CICM).	Various  <a href="https://www.aic.cuhk.edu.hk/basic/courses_ad.php?country=Australia">https://www.aic.cuhk.edu.hk/basic/courses_ad.php?country=Australia</a>		<a href="https://www.aic.cuhk.edu.hk/basic/fag.php">https://www.aic.cuhk.edu.hk/basic/fag.php</a>	This course is for Doctors who have completed or are planning to complete a critical care rotation in Intensive Care, Emergency and or Anaesthetics as a Resident or above.  Approved by the College of Intensive Care Medicine (CICM).
X-ray Chest and Emergency Interpretation	Lightbox Radiology	The goal of the course is to provide practitioners with the confidence to recognise a normal chest X-Ray, common patterns of disease and to recognise radiographic patterns of trauma and injury commonly encountered for each body area. All lectures are developed by radiologists, specialists in the field of medical imaging.	Various (New Zealand and Japan for 2019)	\$540	<a href="https://lightboxradiology.com/course-details.aspx?c=1011">https://lightboxradiology.com/course-details.aspx?c=1011</a>	General Practitioners, Critical Care Physicians, Emergency Physicians, Registrars, House officers, Interns, Radiographers, Physiotherapists.
CT Acute Medical and Surgical Interpretation	Lightbox Radiology	Designed in a systematic learning format, the course covers acquisition, normal variations, patterns of disease & pitfalls in CT imaging of the head, chest, abdomen, pelvis, cervical & thoracolumbar spine. Each module is composed of a didactic lecture followed by an interactive session where participants review CT cases alone or in pairs to reinforce fundamental learning objectives. Our goal is to provide practitioners with the knowledge and confidence to interpret CT findings in commonly encountered acute clinical settings. All lectures are presented by radiologists, specialists in the field of medical imaging.	Various (Sydney and Noosa for 2019).	\$660	<a href="https://lightboxradiology.com/course-details.aspx?c=1005">https://lightboxradiology.com/course-details.aspx?c=1005</a>	Critical Care Physicians, Surgeons, General Practitioners, Registrars, House Officers, Interns, Radiographers
RAVE Course (Rockingham Airway & Ventilation Education)	Rockingham General Hospital	Airway and Ventilation	Rockingham General Hospital		<a href="https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW">https://www.cicm.org.au/Trainees/Training-Courses/Focused-Cardiac-Ultrasound/NSW</a>	Email: <a href="mailto:Anthony.tzannes@health.wa.gov.au">Anthony.tzannes@health.wa.gov.au</a> (preferred communication method for course enquiries) Phone: (08) 9599 4000 (Rockingham)

						General Hospital Switchboard)
<b>Practical Family Donation Conversation workshop</b>	The workshops aim to provide increased skills and practice in having conversations with families about organ and tissue donation and ensuring that families are provided with sufficient information to make an informed and enduring donation decision	DonateLife Network			<a href="https://donatelife.gov.au/resources/health-professionals/practical-family-donation-conversation-workshop">https://donatelife.gov.au/resources/health-professionals/practical-family-donation-conversation-workshop</a>	Provides training and continuing education to a range of health professionals working in organ and tissue donation.
ALS/ALS2/APLS	<i>Please refer to general section</i>					
EMST/ATLS	<i>Please refer to general section</i>					

## Intensive Care Specific Conferences

<b>Title</b>	<b>Organisation</b>	<b>Overview</b>	<b>Location</b>	<b>Cost (estimate only, subject to change)</b>	<b>Website</b>	<b>Suitable for:</b>
Toxicology and Poisons Network Australasia (TAPNA) 2020 Scientific Meeting	<b>TAPNA</b>	The annual scientific meeting for the Toxicology and Poisons Network Australasia.	Various (Perth for 2020)	Depending on registration	<a href="https://willorganise.eventsair.com/tapna-2020/">https://willorganise.eventsair.com/tapna-2020/</a>	All frontline healthcare staff in acute care who are involved in the management of poisoned patients. Doctors, nurses, pharmacists in fields such as Emergency medicine, intensive care, pre hospital emergency medicine, paediatrics and internal medicine.
Regional & Rural Critical Care Conference 2019	College of Intensive Care Medicine of Australia and New Zealand		<i>Various (Darwin for 2019)</i>	<i>Depending on registration type</i>	<a href="https://www.cicm.org.au/Trainees/Regional-Rural-Critical-Care-Conference">https://www.cicm.org.au/Trainees/Regional-Rural-Critical-Care-Conference</a>	
CICM ASM	College of Intensive Care Medicine of Australia and New Zealand	Annual Scientific Meeting	<i>Various (Cairns for 2019)</i>	<i>Depending on registration type</i>	<a href="http://www.cicm-asm.org.au/2019/">http://www.cicm-asm.org.au/2019/</a>	